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	Application No.	Applicant(s)	
ì	10/617,277	BARRICK ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Dao L. Phan	3662	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED) or other appropriate comn RIGHTS. This application is	in this application. If not include nunication will be mailed in due	ed course. THIS
1. This communication is responsive to <u>7/1/04</u> .			
2. The allowed claim(s) is/are <u>1-21</u> .			
3. \bowtie The drawings filed on $\underline{7/10/03}$ are accepted by the Examir	ner.		
 4. ☐ Acknowledgment is made of a claim for foreign priority u a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). 	e been received. e been received in Applicat	ion No	tion from the
* Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		le a reply complying with the rec	quirements
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			OTICE OF
6. CORRECTED DRAWINGS (as "replacement sheets") mu	st be submitted.		
(a) ☐ including changes required by the Notice of Draftsper	son's Patent Drawing Revie	ew (PTO-948) attached	
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date	_,		
(b) including changes required by the attached Examiner Paper No./Mail Date	's Amendment / Comment o	or in the Office action of	
Identifying indicia such as the application number (see 37 CFR areach sheet. Replacement sheet(s) should be labeled as such in	1.84(c)) should be written on the header according to 37 C	the drawings in the front (not the FR 1.121(d).	back) of
7. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT			lote the
Attachment(s)	5 🗆 Nation of I	nformal Patent Application /PTC	1.152\
 Notice of References Cited (PTO-892) Notice of Draftperson's Patent Drawing Review (PTO-948) 		nformal Patent Application (PTC Summary (PTO-413),	J-102)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/		s Amendment/Comment	
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit		s Statement of Reasons for Allo	wance
of Biological Material	9. ☐ Other	•	
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DAO PHAN PATENT EXAMINE? Art Unit: 3662

1. The following is an examiner's statement of reasons for allowance: the Examiner found no teaching in the prior art that would render obvious the claimed method for making a superdirective circular receive array with an odd number of elements, a method for determining an overhead null, and apparatus for an antenna system including "determining an amplitude weight or a phase weight for an array element in the superdirective circular receive array based on the minimum array efficiency and the maximum superdirective gain, and determining a number of array elements in the superdirective circular receive array and a radius of the superdirective circular receive array", claim 1, "calculating the synthesized patterns in accordance with the equations,

$$S_A = V_1 - V_2 + V_3$$

$$S_B = V_2 - V_3$$

$$SC = V_1 + V_2 e^{42\pi/3} + V_3 e^{42\pi/3}$$

Where S_{λ} , S_{B} , and S_{C} are the synthesized patterns.", claim 7, "a first processor configured to calculate amplitude and phase corrections based on minimum array efficiency and a maximum superdirective gain, a second processor to apply calculated phase and amplitude weights and amplitude and phase corrections to the plurality of digital signals", claim 9.

2. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dao L. Phan whose telephone number is (703)306-4167. The examiner can normally be reached on M-F 9:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tarcza Thomas can be reached on (703)306-4171. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

4. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DAO PHAN PATENT EXAMINER